

Title (en)

HEAT SOURCE UNIT AND REFRIGERATION DEVICE

Title (de)

WÄRMEQUELLENEINHEIT UND KÜHLVORRICHTUNG

Title (fr)

UNITÉ DE SOURCE DE CHALEUR ET DISPOSITIF DE RÉFRIGÉRATION

Publication

EP 4166867 A1 20230419 (EN)

Application

EP 21860934 A 20210618

Priority

- JP 2020144348 A 20200828
- JP 2021023189 W 20210618

Abstract (en)

If a first condition that an intermediate pressure corresponding to a pressure of an intermediate flow path (18) is greater than a predetermined value is satisfied in an operation in which first, second, and third compressors (21), (22), and (23) are operated, the control unit (101) executes a first action of increasing the number of revolutions of the third compressor (23).

IPC 8 full level

F25B 5/02 (2006.01); **F25B 1/00** (2006.01); **F25B 1/10** (2006.01); **F25B 41/26** (2021.01)

CPC (source: EP US)

F25B 1/10 (2013.01 - EP US); **F25B 5/00** (2013.01 - EP); **F25B 5/02** (2013.01 - EP); **F25B 13/00** (2013.01 - EP); **F25B 41/22** (2021.01 - US); **F25B 41/26** (2021.01 - EP); **F25B 41/31** (2021.01 - US); **F25B 43/006** (2013.01 - US); **F25B 49/02** (2013.01 - EP); **F25B 49/022** (2013.01 - US); **F25B 2313/0231** (2013.01 - EP); **F25B 2313/0232** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/02791** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP); **F25B 2400/13** (2013.01 - EP); **F25B 2500/07** (2013.01 - EP); **F25B 2600/021** (2013.01 - EP); **F25B 2600/0253** (2013.01 - EP US); **F25B 2600/0272** (2013.01 - EP); **F25B 2700/193** (2013.01 - US); **F25B 2700/1933** (2013.01 - EP); **Y02B 30/70** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4166867 A1 20230419; **EP 4166867 A4 20231213**; CN 116097049 A 20230509; CN 116097049 B 20240301; JP 2022039365 A 20220310; JP 6958692 B1 20211102; US 11796238 B2 20231024; US 2023152019 A1 20230518; WO 2022044503 A1 20220303

DOCDB simple family (application)

EP 21860934 A 20210618; CN 202180053327 A 20210618; JP 2020144348 A 20200828; JP 2021023189 W 20210618; US 202318093657 A 20230105